PIONEER®

The Art of Entertainment

LaserDisc

DVD VIDEO LASERDISC COMPACT disc DIGITAL AUDIO

DVD LD PLAYER

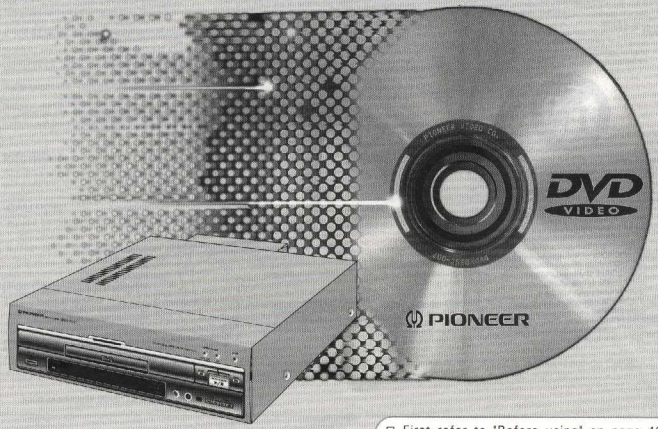
DVL-700

Operating Instructions

NTSC

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

- This player is not suitable for commercial use.



- ☐ First refer to "Before using" on page 40 and "Connections" on pages 41 – 45.
- ☐ Refer to pages 8 – 10 for basic playback.

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

CLEANING — Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION – The appliance should be installed in a stable location.

NONUSE PERIODS – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

LIGHTNING — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

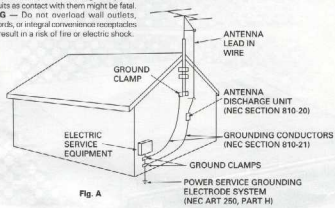


Fig. A

OBJECT AND LIQUID ENTRY — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

REPLACEMENT PARTS — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WALL OR CEILING MOUNTING — The product should not be mounted to a wall or ceiling.

HEAT — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE

[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

[For Canadian model]

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.

– Increase the separation between the equipment and receiver.

– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

– Consult the dealer or an experienced radio/TV technician for help.

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

[For Canadian model]

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

[Pour le modèle Canadien]

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

HERE'S WHAT YOU CAN DO

5.1 ch Dolby digital surround audio can be enjoyed by connecting a Digital surround amplifier or surround processor (Dolby* Digital) (or AC-3)(for DVD).**

96 kHz sampling, 20 bit resolution linear PCM audio, higher quality sound than that on a CD, can be enjoyed (for DVD). **

Both coaxial and optical digital output jacks are provided, allowing stream output of up to 96 kHz sampling, 24 bit resolution (for DVD). **

High grade audio can be enjoyed through the use of Pioneer's original Hi-Bit conversion (for CD, LD and DVD).

Pioneer's original beautiful GUI screen allows remote control operation while viewing the screen (for CD, LD and DVD).

Even with discs that do not include a menu, GUI operation is possible with the player's menu (for DVD).

On LD discs, continued playback of both sides (front side and back side) is possible. (For LD) (Page 8)

Movies etc., can be stopped halfway through and then resumed from that point later on (for LD and DVD). (Resume playback)** (Page 13)

Still picture and frame by frame advancement is possible (for LD and DVD) (Page 14)

Various types of repeat playback are possible (for CD, LD and DVD). (Repeat playback) (Page 18)

Songs (or chapters) can be played back in a random order (for CD and LD). (Random playback)** (Page 19)

Chapters and titles can be re-arranged and played back in the order that you like (for CD, LD and DVD). (Program playback)** (Page 20)

The screen size that you want can be selected from among the regular screen, wide screen or letter box screen settings (for DVD). ** (Aspect) (Page 24)

The picture quality that best suits movies or animation can be selected (for DVD). (Movie mode, Animation mode) (Page 26)

Various settings can be memorized on DVD discs that are regularly viewed. Once memorized, the disc's settings can be recalled automatically at any time (for DVD). (Condition memory) (Page 28)

The subtitle language of a movie etc., can be switched (for DVD). ** (Subtitle) (Page 30)

The scene (angle) that you want to view can be selected (for DVD). ** (Multi-angle) (Page 30)

Audio can be switched on discs that have been recorded with more than one type of audio (for DVD). ** (Muiti-Audio) (Page 31)

The restriction level of a movie can be selected (for DVD). ** (Parental level) (Page 38)

Power on demo display
When set to the power on demo mode, various displays can be viewed.
To set the power on demo mode, press the POWER switch while pressing the front panel's ►► ►►I button. The power on demo mode can be canceled by pressing any button.

* Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", "AC-3", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Copyright 1992 Dolby Laboratories, Inc. All rights reserved.

** These features may not operate on some discs.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Tips

DVD is a new media that utilizes standardized 12 cm discs capable of recording up to 133 minutes of video and high quality audio. In addition to functions possible on discs available up until now, DVD discs are standardized with many new features that allow a wide range of entertainment. For example, you can change the viewing angle of the movie you are watching, change the subtitle language, or change the selected audio language. Besides these DVD standardized features, this DVD player includes other original superior features such as a GUI (Graphical User Interface) function.
Although this player can play back DVD standard discs, depending on the disc, some features may not operate exactly as explained in this manual. Changing the subtitle language for example, will not be possible on discs that contain only one subtitle language.

Please refer to both this Operating Instructions and the disc's instruction manual for operation.

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Explanation of functions for DVD

Explanation of functions for LD

Explanation of functions for CD

Operations indicated with this mark are done with the main unit

Operations indicated with this mark are done with the remote control

Operations indicated with both marks can be done with either the main unit or the remote control

Disc types compatible with this unit

This unit is a DVD LD CD player.

- The symbol indicated below is on the label or jacket of the discs. This unit can play back the following types of discs without using an adapter.
- To prevent a malfunction, do not use an 8-cm (3 in.) adaptor (for CD).

Types of playable discs and their marks	Diameter/Playable sides		Playback time
DVD	DVD*		Digital audio Digital Video (MPEG 2)
DVD VIDEO	12 cm (5 in.)/ single-sided	1 layer	133 min. (4.7 GB)
		2 layer	242 min. (8.5 GB)
	12 cm (5 in.)/ double-sided	1 layer	266 min. (9.4 GB)
		2 layer	484 min. (17GB)
	DVD*		Digital audio Digital Video (MPEG 2)
	8 cm (3 in.)/ single-sided	1 layer	41 min.
		2 layer	75 min.
	8 cm (3 in.)/ double-sided	1 layer	82 min.
		2 layer	150 min.
CD COMPACT DISC DIGITAL AUDIO	CD 12 cm (5 in.)/ single-side		Max. 74 minutes
	CD single 8 cm (3in.)/ single-side		Max. 20 minutes
CDV CD VIDEO	CDV 12 cm (5 in.)/ single-side		Digital audio (max. 20 min.) (Audio part) Digital audio + Video (max. 5 min.) (Video part)
VSD (video single Disc) VIDEO SINGLE DISC	VSD 12 cm (5 in.)/ single-side		Digital audio + Video (max. 5 min.) In the operating instructions in this manual, the VSD is treated as a kind of CDV.
LD LASER DISC	LD 30 cm (12 in.)	CAV	1 hour on a double-sided disc
		CLV	2 hours on a double-sided disc
LD LaserVision	LD 20 cm (8 in.)	CAV	28 min. on a double-sided disc
		CLV	40 min. on a double-sided disc
LD CD VIDEO	LD Single 20 cm (8 in.)	CAV	14 min. on a single-sided disc
		CLV	20 min. on a single-sided disc

This unit conforms to the NTSC system. Discs other than the above cannot be played back with this unit.

* The playback time is as the data transferred at a rate of 4.7Mbps.

Note

- The DVD discs which do not contain the regional restriction code 1 (for North-America) cannot be played back with this unit. For the "regional code", refer to "Terms" on page 51.

Handling the discs

	LD	CD/CDV
Holding with both hands Hold both sides of the disc.		
Holding with one hand Hold the edge of the central hole and the outside of the disc with your fingers.		

Caution

VIDEO CD [COMPACT DISC DIGITAL VIDEO OR VIDEO CD]

cannot be played with this player.

(Video CD is a disc holding up to 74 minutes of digital video and audio signals.)

Caution

- Time search, Chapter search, A-B repeat and Random memory etc., may not be possible with some DVD discs. If these modes do not function on this player, the ⃠ mark will be displayed on the screen.
- **During some function operations, the picture may be stopped, or the operation buttons may become inoperable during playback. In this case, re-start playback after stopping the player once (by pressing the STOP ■ button on the front panel once, or the STOP ■ button on the remote control twice).**

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Locating a DVD, LD or CD chapter or track 12

Resuming playback from same position on DVD or LD 13

• Practical operation

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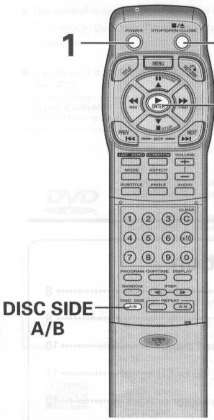
Locating a specific location on DVD, LD or CD (Search) 15

Repeat playback of DVD, LD or CD 18

Random playback of LD or CD discs 19

Playback of DVD, LD or CD in desired order (Program playback) 20

Playback of LD



Playback by designating side A or B

(Double-Sided LD only)

- With a double-sided LD, side A in this description refers to the upper side when it is loaded on the disc table and side B refers to the down side. Remember that they do not refer to the disc sides A and B as recorded on the disc.

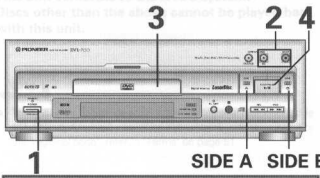
If the disc is placed with the label marked "SIDE A" facing upward and when it is required to play side A only, press the **DISC SIDE A button** without pressing the **PLAY/PAUSE ►/II button**; the playback stops after having played side A. When it is required to play side B only, press the **DISC SIDE B button** without pressing the **PLAY/PAUSE ►/II button**; the playback stops after having played only side B.

If the disc is placed with the label marked SIDE B facing up, pressing the A button plays disc side B and pressing the B button plays disc side A.

- Each time the remote control's **DISC SIDE A/B button** is pressed, the disc will be switched between the A and B sides. The side selected can be confirmed in the window display.

Notes

- Loading a disc improperly on the disc table, or loading 2 discs at one time will result in improper operation or scratch the disc and may cause damage to the player itself. Also, never place anything other than a disc on the disc table.
- The time that it takes for playback to begin will differ according to the type of disc previously played back or the type of disc table that was opened and closed.



1 POWER

Press the POWER button

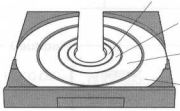
- STANDBY indicator goes out.

2 ■/▲ STOP/OPEN/CLOSE

Press the STOP/ OPEN/ CLOSE ■/▲ button

- Press the **LD OPEN/CLOSE ▲ button** on the front panel.
- When a disc other than an LD is loaded in the player, press **LD OPEN/CLOSE ▲ button** on the front panel.
- The disc table comes out.

LD disc table



3 Insert the disc

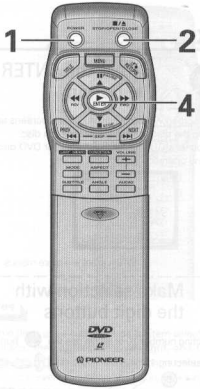
- Load a single sided LD label side up and a double sided LD with the side you want to watch facing upward, and align with the disc guide.

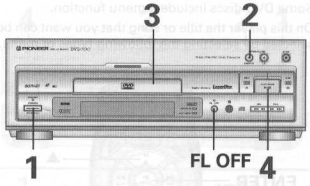
4 ENTER

Press the ENTER ► button

- Press the **PLAY/PAUSE ►/II button** on the front panel, .
- On a double sided LD, when the A side has finished playing the disc will be automatically turned over and playback of the B side will start.

Playback of DVD or CD





Playback is not possible

- Regional restriction codes (region code) are built-in to DVD players and DVD discs for each sales region. If the regional code of the DVD player does not match one of the regional codes of the DVD disc, playback will not be possible. The regional code for North America is 1.
- Playback of DVD discs other than DVD-Video discs is not possible.

Convenient functions

Auto power on function

- If you wish to open the disc table when the power is [OFF], press the front panel **OPEN/CLOSE ▲ button**. The power will turn on automatically, and the disc table will open.
- When the power is turned off with the disc still inserted, pressing the front panel **PLAY/PAUSE ►/II button** or **ENTER ► button** on the remote control will automatically turn the power on and start playback.

Turn off the display window

Press **FL OFF button**. The display window turn off.
Press **FL OFF button** again, the display window turn on.

Tips

When the playback is restarted without changing the title, etc., using the menu operation, the playback starts at the same title.

Note

The time that it takes for playback to begin will differ according to the type of disc previously played back or the type of disc table that was opened and closed.

1 POWER

Press the POWER button

- STANDBY indicator goes out.

2 ■/▲ STOP/OPEN/CLOSE

Press the STOP/ OPEN/ CLOSE ■/▲ button

- Pressing the **DVD/CD OPEN/CLOSE ▲ button** on the front panel will open the DVD/CD disc table (from the bottom).
- After the LD disc table has been opened and closed or after playback of an LD, pressing the **STOP/ OPEN/CLOSE ■/▲ button** on the remote control will open the LD disc table.

3 Insert the disc

- Insert the disc label-side up and align it with the disc guide

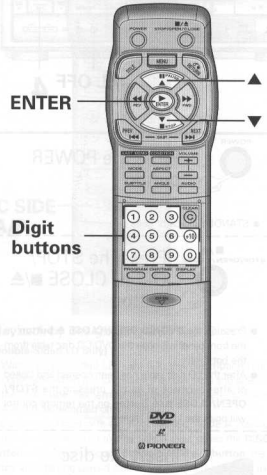
4 ENTER

Press the ENTER ► button

- Alternatively, press the **PLAY/PAUSE ►/II** button on the front panel.
- Playback will start.
- Menu displays may appear on the screen depending on the type of discs.
  Please refer to next page if the menu displays appear.

Playing back using a selected menu

Some DVD discs include a menu function.
On this player the title or song that you want can be selected by selecting the following types of menu.



Tips

Contents of menus will differ depending on the disc. Use the **direction buttons** (▲▼◄►), **ENTER ► button** and **digit buttons** to enjoy the corresponding playback features.

Notes

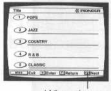
- You cannot use these functions crossing two different titles.
- You can use these functions only when you use the DVD discs with time or chapter display.

Playback

1 Press the ENTER ► button

- The menu screen will be displayed. Menu screens are recorded on the disc and will differ for each disc.
- The front panel's GUI indicator will light for DVD discs where menu operation is possible.

Ex.)

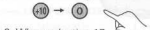


When there are more menus

2 Make selection with the digit buttons

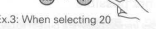
- When selecting number 10 or above use the +10 button.

Ex.1: When selecting 10



Ex.2: When selecting 17

Ex.3: When selecting 20



- The selected title or song will be played back.
- Selection can also be made by selecting with the ▲, ▼ buttons, and then pressing the ENTER ► button.

To return to the menu screen during playback

After the TITLE button is pressed, pressing the MENU button will display the title menu screen. Pressing the MENU button again will display the menu within the title.

To stop playback

- Playback can be stopped using either of the following two methods. Press the **STOP/OPEN/CLOSE ■/⏏ button**.
- When operating menus recorded on DVD discs, "STOP?" will be displayed on the screen when the remote control's **STOP ■ button** is pressed for approximately 2 seconds. "STOP?" will also appear if the remote control's **STOP ■ button** is pressed while the GUI indicator is not lit. Although "STOP?" will disappear after a few seconds, pressing the **STOP ■ button** once again while it is displayed will engage the stop mode.

To go to the next menu screen

Press the **NEXT ►►I button**.

To return to a previous menu

Press the **PREV I◄◄ button**.

To return one menu screen back

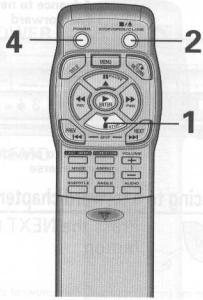
Press the **RETURN ↶ button**.
- Each time the button is pressed, the menu screen will return one menu screen back.

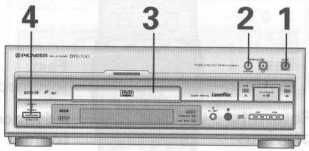
To temporarily pause a moving picture

Press the **PAUSE II button**.
- To release pause, press the **PAUSE II button** once again.

Depending on the disc, the above operation may not be possible.

Stopping playback of DVD, LD or CD





Notes

- Some discs use a cursor button for item selection. On these types of discs, the GUI indicator will light, and the remote control (▲/▼/◄/►/ENTER) buttons will function as direction buttons.
  Also, to prevent mistaken operation, when the remote control's **STOP ■ button** is pressed for approximately 2 seconds when the front panel's GUI indicator is lit anytime other than when DVD menus are being operated, "STOP?" will appear. As well, when the GUI indicator is not lit on the front panel, or when a disc other than a DVD disc is being played back, "STOP?" will be displayed when the remote control's **STOP ■ button** is pressed. Although "STOP?" will disappear after a few seconds, pressing the **STOP ■ button** once again while it is displayed will engage the stop mode.
- When the **STOP/OPEN/CLOSE ■/▲ button** on the remote control is pressed during playback, playback will be stopped (the button functions as the stop button).

Convenient functions

Resuming playback from same position on DVD

Resuming playback of a DVD from the point where it was last viewed to is possible.
For details, please refer to "Resuming playback from same position on DVD or LD" on page 13.

Pausing playback temporarily

Press the **PLAY/PAUSE ►/II button** (**PAUSE II** on the remote control). The sound will disappear and PAUSE will be displayed on the display window. When the **PLAY/PAUSE ►/II button** (**ENTER ►** on the remote control) is pressed again, playback will begin from where playback was stopped.

- The still picture mode will be engaged on DVD and LD discs.
- As prolonged pausing of DVD discs will cause shortening of the motor's life span, playback pause will be automatically stopped after approximately 20 minutes with these discs. (Pause timer)

1 STOP

Press the STOP ■ button twice on the remote control

or

■/▲ STOP/OPEN/CLOSE

Press the STOP/ OPEN/CLOSE ■/▲ button once on the remote control

- Pressing the **STOP ■ button** on the front panel or the **OPEN/CLOSE ■ button** on the remote control (during playback) twice is not necessary.
- Playback will be stopped.

2 ■/▲ STOP/OPEN/CLOSE

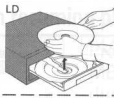
Press the STOP/ OPEN/CLOSE ■/▲ button

- The disc table will open.

3 DVD/CD

Remove the disc

LD

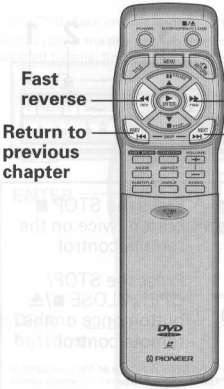


4 POWER

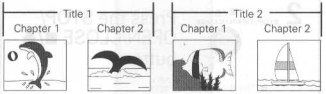
Press the POWER button

- The disc table will close, the power will turn off, and the STANDBY indicator will light.

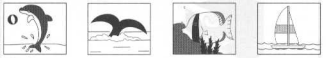
Locating a DVD, LD or CD chapter or track



DVD



LD



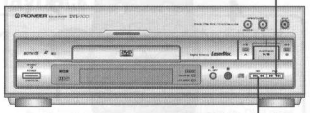
CD

Tips

What is a chapter?
DVD discs are divide into titles, and these titles are further sub-divided into chapters. What are called tracks on a CD are called chapters on a DVD.

Note

- You cannot use these functions crossing two different titles.



Advancing to a forward chapter or track

Press the NEXT ▶▶| button

- Press the button repeatedly the number of chapters or tracks forward you wish to advance.
- You can fast forward to the desired location by pressing and holding down **▶▶ ▶▶| button** on the front panel.

Returning to a previous chapter or track

Press the PREV |◀◀ button

- When pressed once, the beginning of the chapter or track currently being played back will be returned to.
- When pressed again, the previous chapter or track will be played back.
- You can fast reverse to the desired location by pressing and holding down **|◀◀ ◀◀ button** on the front panel.

Fast forward

Press and hold the FWD ▶▶ button

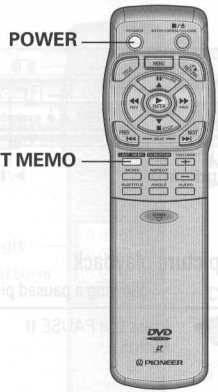
- When the desired location has been reached, release the **FWD ▶▶ button**. Playback will continue from the new location.

Fast reverse

Press and hold the REV ◀◀ button

- When the desired location has been located, release the **REV ◀◀ button**. Playback will continue from the new location.

Resuming playback from same position on DVD or LD



Point slightly before the playback is stopped.

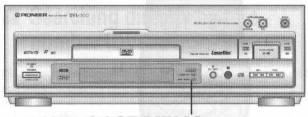
Point where playback is stopped.

Tips

- This function is for DVD and LD playback only. Resuming playback on CDs is not possible.
- The last memory function does not only memorize the position, it also memorizes the various picture, audio, display and mode settings.
- Even on a disc that has a LAST MEMORY position memorized, the disc can be played back from its beginning by pressing the **PLAY/PAUSE ►/II button**.
- The LAST MEMORY position will be automatically erased when playback is started.
- Recording the LAST MEMORY position on more than 5 discs will erase and overwrite all previously recorded positions.
- In the case of DVD discs, this function may not operate for some titles. The ⃠ mark which will be displayed on the screen at this time.

Note

When the power is turned off by a power outage or by unplugging the power cord, memorization will not be possible. When unplugging the power cord, be sure to first press the **POWER switch** on the front panel or **POWER button** on the remote control before doing so.



FUNCTION EXPLANATION

On a DVD disc

Locations that you want to continue viewing from can be memorized on different discs. The memorized point will not be erased even if the disc is removed. Playback can be continued from the memorized point.

Location points can be recorded on up to 5 discs.

On an LD disc

Memorize the place you want to continue viewing from later.
Leave the disc loaded as removing the disc will cancel the memorized location.
Only playback from the memorized place on a disc loaded (1 disc) is possible.

When memorizing

Press the LAST MEMO button during playback

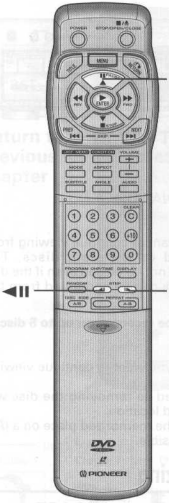
- The LAST MEMORY indicator will light on the front panel.
- Press the **POWER button** to turn the power off, or press the **STOP ■ button** to stop playback.

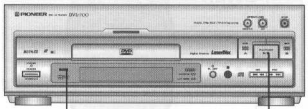
When resuming playback

Press the LAST MEMO button during stop mode or while the title menu is displayed

- When the power is turned off, pressing this button will turn the power on automatically, making the same operation possible.

Still picture/Frame by frame playback of DVD or LD





The picture moves one frame backward each time the button is pressed. (LD only)

Still picture

The picture moves one frame forward each time the button is pressed.

Notes

- The sound will not be heard during still picture or frame by frame playback.
- When the GUI indicator is lit, if the **ENTER ► button** on the remote control is not pressed for about 2 seconds, the regular playback mode will not be returned to.
- Depending on the disc, some discs can not be paused. In this case, the ⃠ mark will be displayed.

■ Still picture playback

-Viewing a paused picture

Press the PAUSE II button

- Press the **PLAY/PAUSE ►/II button** on the front panel.
- When playing a DVD and an LD, the **STEP ◄II II► buttons** can also be used to engage the still picture mode.
- When the unit is set to CINEMA mode or ANIMATION mode, the particular display (INTERMISSION or Break) appear on the screen instead of still-picture.

■ Frame by frame playback

-Viewing the picture one frame at a time

From the still picture mode, press the STEP II► or ◄II button

II►: Each time the button is pressed, the picture will be advanced one frame.

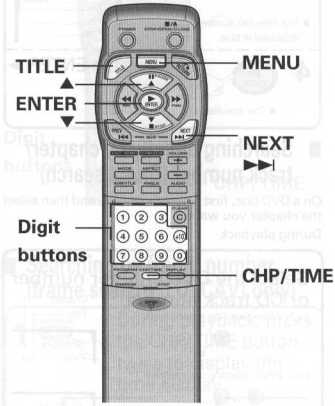
◄II: Each time the button is pressed, the picture will be returned one frame. (LD only)

- Slow playback can be engaged by pressing and holding the **II► button**.
- When the **STEP ◄II or II► buttons** is pressed during slow playback, the playback speed changes.

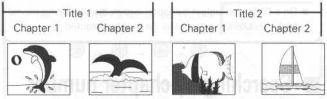
To return to normal playback

Press the **PLAY/PAUSE ►/II button** (**ENTER ► button** on the remote control).

Locating a specific location on DVD, LD or CD (Search)



DVD



Notes

- Titles can not be played back in succession. (For example, the procedure explained in the right diagram (Third) can not be used to play back titles 1 - 5 successively.)
- To play back more than 1 title successively, the titles must be programmed and played back using the program playback function (refer to pages 20 and 21).
- On some DVD discs, use of the search function is prohibited. In the case of these types of disc, the search function will not operate.

■ Searching directly by title number (DVD only)

Operation procedure is different for search during the stop mode and search during the playback mode.

During the stop mode

First

Press the NEXT button

- The title number will increase each time the button is pressed. Press the button until the number you want is reached. Playback will begin.

Second

Select the title number directly with the digit buttons

Ex.1: When selecting title 3 → ③

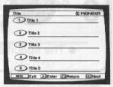
Ex.2: When selecting title 10 → ⑩ → 0

Third

1

Press the TITLE button

- The title's menu will be displayed.



2

Select the title number with the ▲▼ buttons

- The selected number will be displayed in blue.

3

Press the ENTER ► button

- The specified title will be played back.

Continued on next page

During playback

First

1 Press the TITLE button

● The title number will appear flashing on the screen.

2 Select the title number directly with the digit buttons

Ex.1: When selecting title 3 → ③

Ex.2: When selecting title 10 → +10 → 0

Second

1 Press the TITLE button

● The title number is displayed blinking on screen.

2 Press the TITLE button again

● Press until the title number you want is reached.

3 Press the ENTER ► button

● The specified title will be played.

Third

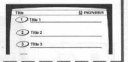
1 Press the TITLE button

2 Press the MENU button

● The title's menu will be displayed.

3 Select the title number using the ▲▼ buttons

● The selected number will be displayed in blue.



4 Press the ENTER ► button

● The specified title will be played.

■ Searching directly by chapter/ track number (Direct search)

On a DVD disc, first playback the title and then select the chapter you want.

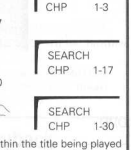
During playback

Select the DVD chapter number or CHAPTER/TRACK number

Ex.1: When selecting chapter/track 3 → ③

Ex.2: When selecting chapter/track 17 → +10 → 7

Ex.3: When selecting chapter/track 30 → +10 → +10 → +10 → 0



● On a DVD disc, select a chapter within the title being played back. Chapters in other titles can not be selected.

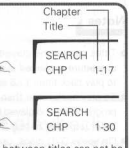
■ Searching by chapter number (Normal search)

During playback

First

Ex.1: When searching for 17: CHAPTER/TIME → ① → 7 → ENTER

Ex.2: When searching for 30: CHAPTER/TIME → ③ → 0 → ENTER



● On DVD discs, a chapter that spans between titles can not be selected. This function can only be used within the same title.

■ Searching by frame number (frame search) (LD (CAV) only)

1 CHP/TIME

During playback, press the CHP/TIME button twice to display the time display

CHP 0 → FRM 0

2 Press the digit buttons to specify the time number

Ex.: When the frame number is 2143.

FRM 2143

② → ① → ④ → ③

- A time that spans between titles can not be selected. This function can only be used within the same title.

3 ENTER

Press the ENTER ► button

- Still picture will begin from the specified frame number's picture.

Notes

- Time search is not possible on CDs.
- In the case of DVD discs, this function may not operate for some titles. The ⃠ mark which will be displayed on the screen at this time.

Tips

To clear the blinking display of the title, chapter or time, press the CLEAR button twice.

During DVD playback

Second

1 CHP/TIME

Press the CHP/TIME button

2 MENU

Press the MENU button

- The chapter's menu will be displayed.

3 Select the title number directly with the digit buttons

4 ENTER

Press the ENTER ► button

- The specified title will be played back.

■ Searching by time (Time Search) (DVD, LD (CLV) only)

1 CHP/TIME

During playback, press the CHP/TIME button twice to display the time display

CHP 0 → TIME 0.00

- With a LD which does not contain chapter data, pressing the button only once displays the time number display.

2 Press the digit buttons to specify the time number.

Ex.: A scene located at 21 minutes, 43 seconds.

TIME 21.43

② → ① → ④ → ③

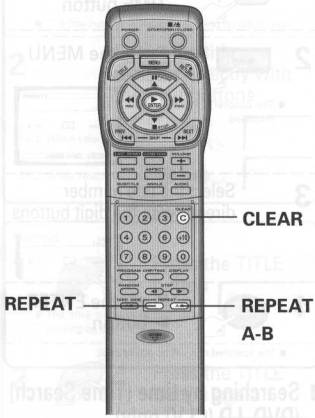
- A time that spans between titles can not be selected. This function can only be used within the same title.

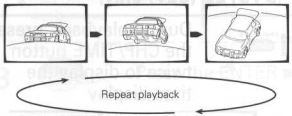
3 ENTER

Press the ENTER ► button

- Playback will begin from the scene located at the specified time number.

Repeat playback of DVD, LD or CD





Convenient functions

Program playback can be repeated. During program playback, press the **REPEAT button** once (Program repeat).

- Please refer to page 20 for program playback.

Tips

- On DVD discs, this mode functions within the same title will be repeated.

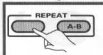
Note

In the case of DVD discs, this function may not operate for some titles. The ⃠ mark which will be displayed on the screen at this time.

To stop repeat playback

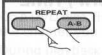
Press the **CLEAR button**. The repeat mode will be canceled. Playback will continue.

■ Repeat playback of track or chapter



Press the REPEAT button once during playback of the song or chapter you want to playback

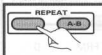
■ Repeat playback of one title



Press the REPEAT button twice

- On a DVD, when playback has reached the end of a title, playback will be repeated from the beginning of the title.
- On a CD , 1 disc is 1 title, so playback of the whole disc will be repeated.
- With a LD, only one side will be played repeatedly.

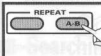
■ Repeat playback of both sides of an LD



Press the REPEAT button 3 times

- Playback will repeat from the A side to B side, and the B side to A side.

■ Repeat playback of a specified location



Press the A-B button at the start and end of the section you wish to play back

■ Returning to a specified location

Press the REPEAT A-B button at the desired location

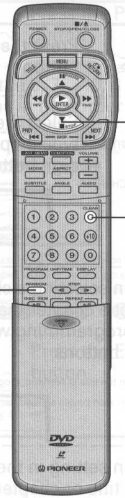
Press the ENTER ► button at the place you want to return

- When the GUI indicator is lit on the front panel, press the **ENTER ► button** for about 2 seconds.
- To erase the specified location point, press the **CLEAR button**.

Random playback of LD or CD disc

All chapters (songs) within a title will be played back in a random order. Playback will stop when playback of all chapters (songs) within a title has finished.

Random playback will not function for a DVD disc.



■ Random playback

Press the RANDOM button

- R A M will appear on the display window.
- On an LD disc, press the **RANDOM button** after first starting playback by pressing the **PLAY/PAUSE ►/ II button** once.

■ To stop random playback

Press the CLEAR button

During random playback:

- Pressing the **NEXT ►►I button** will select the next song selected by the player.
- Pressing the **PREV I◄◄ button** will re-start playback from the start of the song currently playing.
- To quit random playback, press the **CLEAR button**. Normal playback will be resumed and playback will continue in order from the song currently being played back.
- Pressing the **RANDOM button** during random playback will cancel the current random order and re-start playback in a new random order.

Random playback of the B side of an LD disc:

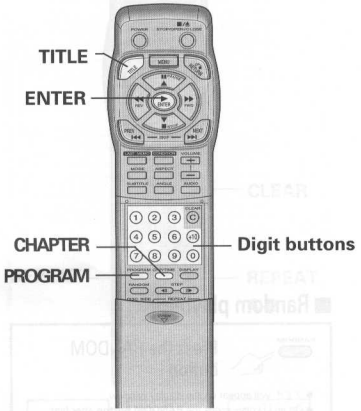
- Press the **SIDE B button** and then press the **RANDOM button**.

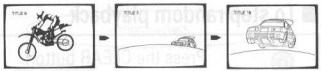
Tips

- Random playback is not possible on LDs that do not include TOC data.
- Random playback does not function for selections memorized for program playback.

Playback of DVD, LD or CD in desired order
(Program playback)

- The contents programmed on a DVD and CD will differ.





Tips

- You can make program up to 24 steps.
- When playback of the selected program has finished, the stop mode will be engaged.
- If you press the wrong digit button by mistake, press the **CLEAR button**, then press the correct digit button.
- Program playback is not available with a disc which does not contain chapter number data.
- In the case of DVD discs, this function may not operate for some titles. The ⃠ mark which will be displayed on the screen at this time.

Program setting (DVD)

On DVD discs 2 types of programs can be set: ① Program by title, and ② Chapter program.

1 PROGRAM

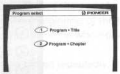
Press the PROGRAM button

2

① TITLE

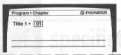
② CHAPTER

Select the program type by pressing the digit buttons



3 When selecting a chapter, select a chapter that has a title for programming with the digit buttons

- When the title is selected, proceed to step 4.



4 When setting in the order of DVD title or chapter 9 → 7 → 18

9 → 7 → +10 → 8

DVD TITLE

DVD CHAPTER

5 ENTER ►

Press the ENTER ► button

- The program will be played back in the order selected.

Program setting (LD, CD)

Ex: When setting a program in the order of 9th song → 7th song → 18th song

1 PROGRAM — Press the PROGRAM button

2 Press the 9, 7, +10, 8 digit buttons in that order

9 → 7 → +10 → 8

- On a double sided LD, the disc side and song numbers are grouped together as one group. For example, for chapter 9 on the B side, press DISC SIDE A/B → DISC SIDE A/B → 9

3 ENTER — Press the ENTER ► button

- The program will be played back in the order selected.

?

- When the disc is moving from one chapter to another, a chapter not programmed may be momentarily visible. This is not a malfunction.
- Pressing the **STOP/OPEN/CLOSE ■/▲ button** during playback will stop playback (the button functions as the stop button).

Tips

Programming a pause

If the **PAUSE II button** on the remote control is pressed instead of a **digit button**, **II** will appear and a pause can be programmed.

Adding a tune

When the **PROGRAM button** is pressed during program playback, program menu is displayed and additional tunes can be programmed. After adding tunes, pressing the **PROGRAM button** will resume program playback.

■ Stopping program playback

Press the STOP ■ button twice

- Because the **STOP ■ button** is used at the same as the **direction buttons** (↑ ↓ ← → ENTER), to prevent mistaken operation, "STOP?" appears when the **STOP ■ button** is pressed. Although "STOP?" will disappear after a few seconds, pressing the **STOP ■ button** once again while it is displayed will engage the stop mode. Pressing the front panel's **STOP ■ button** or **STOP/OPEN/CLOSE ■/▲ button** twice is not necessary.
- Program playback will be stopped.

■ Canceling the whole program

CLEAR C — From the stop mode press the CLEAR button

- The program will also be completely cleared when the disc table is opened.

■ Canceling 1 song at a time

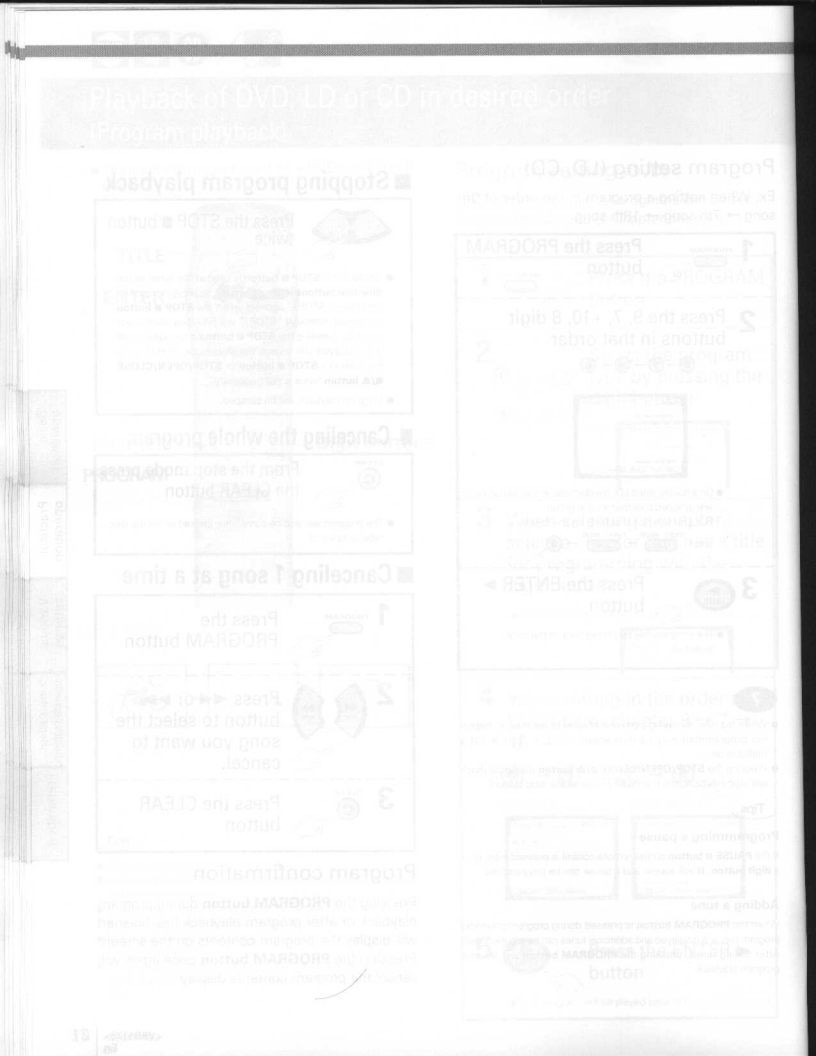
1 PROGRAM — Press the PROGRAM button

2 REV ◄◄ / FWD ►► — Press ◄◄ or ►► button to select the song you want to cancel.

3 CLEAR C — Press the CLEAR button

Program confirmation

Pressing the **PROGRAM button** during program playback or after program playback has finished will display the program contents on the screen. Pressing the **PROGRAM button** once again will cancel the program contents display.



• Various settings

Software set-up for wide TVs 24
Adjusting the volume 25
Switching the picture quality and display ... 26
Viewing information of DVD or CD 27
Memorizing settings for frequently viewed discs 28
Selecting the subtitle language 29
Selecting the scene angle 30
Selecting the audio language 31
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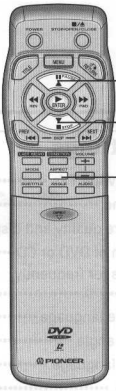
Software set-up for wide TVs

Some DVDs have squeeze images that are compatible with wide screen TVs. When this type of DVD is played back on a normal TV, the screen may become narrow. In this case, the aspect function on this player can be used to return the image to a normal state.



Tips

- The ratio of a normal TV is Length 4: Height 3, and a wide TV or Hi Vision TV is Length 16: Height 9. This length and height ratio is referred to as "aspect".
- You can select this mode only when you use the DVD discs with the information of aspect. If you press the **ASPECT button** when a disc that does not include the aspect function is being used, the ⃠ mark will be displayed in the left hand bottom corner of the screen.
- The aspect can not be changed for DVD discs recorded in the 4:3 mode or letter box mode.

Note

When the power is turned off by a power outage or by unplugging the power cord, the memorized settings will be erased. When unplugging the power cord, be sure to first press the **POWER switch** on the front panel or **POWER button** on the remote control before doing so.

A picture recorded for wide TV use will appear as follows when viewed on a normal TV

In the 4:3 mode, the picture is displayed so that it fits within the top and bottom height.

- The left and right of the picture is cut off.

In the letter box mode, the picture is displayed so that it fits within the left and right length.

- The left over top and bottom space becomes a black band.

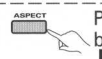
Set-up

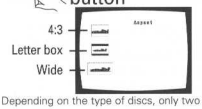
1 Place a disc that is recorded with a picture for wide TVs on the disc table

2 Press the ENTER ► button

- Playback will begin.

3 Press the ASPECT button



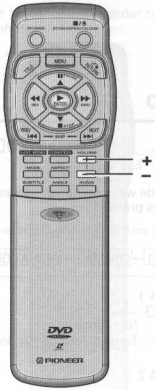


- Depending on the type of discs, only two icons will be displayed.

4 Press the ▲▼ buttons and select the desired mode (4:3, Letter box, Wide)

- The screen will change
- Each time you press the **ASPECT button**, the mode will change.
- The aspect selection screen will disappear in a few seconds. The aspect selection screen will disappear immediately by pressing the **ENTER ►/II button**.

Adjusting the volume



Tips

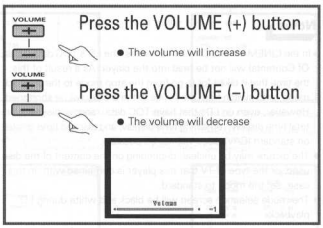
- Only audio output from the AUDIO OUTPUT 1 or 2 terminals can be adjusted.
- The recording level may be variable depending on each disc or between the digital and analog audio of a LD. In these cases, the audio output level should be controlled on the amplifier or monitor TV.
- Please think of this function as a sub-volume for matching the volume level of other components.
  Once the volume has been adjusted to match the volume level of other components such as a video player, tuner etc., it is easiest to adjust the volume with the volume control of a regular TV or audio amplifier.

Notes

- Memorized settings on this player will be retained even if the power is turned off. However, when the power is turned off by a power outage or by unplugging the power cord, the memorized settings will be erased. When unplugging the power cord, be sure to first press the **POWER switch** on the front panel or the **POWER button** on the remote control before doing so.
- The volume screen will be black and white during LD playback.

Volume adjustment

Volume can be adjusted on remote control unit



Switching the picture quality and display

This function can be used to select the type of image you like, such as cinema, animation etc.. When selected, the time that it takes the player to go from the stop mode to the playback mode on an LD, or to switch from the A side to the B side on a double sided LD disc, is shortened.

Tips

- In STANDARD mode, the still-picture will be displayed during pausing.
  In CINEMA or ANIMATION mode, the particular displays will appear on the screen.
- There is no animation mode on LD discs or CDV discs (Video part).

Notes

- In the CINEMA 1 and CINEMA 2 modes, the LD's TOC data (Table Of Contents) will not be read into the player. As a result of this, the time that it takes for to go from the stop mode to the playback mode, or to switch from the A side to the B side, will be shortened. However, even on LDs that have TOC data, random playback or total time display, remaining time display, and elapsed time display on standard (CAV) discs will not be possible.
- The picture may be unclear, depending on the content of the disc used, or the type of TV that this player is combined with. In this case, set the mode to standard.
- The mode selection screen will be black and white during LD playback.

Set-up

Press the MODE button

The mode will change as follows each time the button is pressed.

- The mode can also be switched by pressing the ▲▼ buttons.

CINEMA 1 → CINEMA 2 → ANIMATION → STANDARD

CINEMA 1

Picture: No change
Function: Turns off display window

CINEMA 2

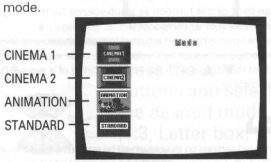
Picture: Hi-contrast picture with sharpened blacks.
Function: Turns off window display

ANIMATION

Picture: A beautiful picture with brighter colors can be enjoyed.

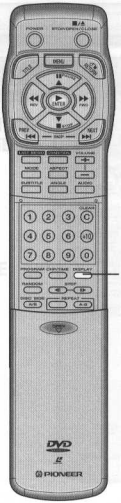
STANDARD

Both picture and display will return to normal mode.



Viewing information of DVD, LD or CD

The display can be canceled in order to retain the movie's atmosphere.



■ Viewing information

DISPLAY

Press the DISPLAY button during playback

- DVD: Each time the button is pressed, the title number, chapter number and recording time will be displayed.
- LD: Each time the button is pressed, the chapter number, playback time and other displays will be displayed.
- CD: Each time the button is pressed, the track number and recorded time will be displayed.
- Depending on the location on the disc, the disc menu etc. or title, may not be displayed.

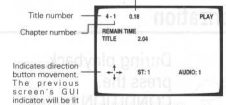
DISPLAY

Press the DISPLAY button during stop mode

- The information about the disc will be displayed.
- Information will not be displayed on LD discs after B side playback or on discs that do not have TOC data.

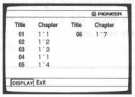
DVD

[During playback mode]

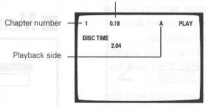


REMAIN TIME TITLE: Remaining time of title being played back.
TOTAL TIME: Total playback time of title being played back.

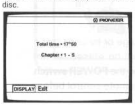
[During stop mode]



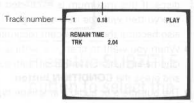
LD



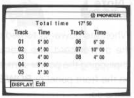
DISC TIME: Elapsed time from start of disc.
REMAIN TIME ALL: Remaining time from playback point to end of disc.
TOTAL TIME: Total playback time of disc.



CD



REMAIN TIME TRACK: Remaining time of song being played back.
REMAIN TIME ALL: Remaining time from playback point to end of disc.
TOTAL TIME: Total playback time of disc.

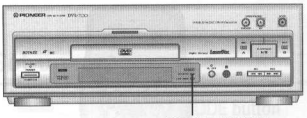


Memorizing settings for frequently viewed DVD discs

The settings on discs frequently viewed can be memorized for each disc.

The settings will be memorized even if the disc is unloaded or the power turned off. When a disc that has been memorized is loaded, the CONDITION indicator will light. If the disc is played back at this time, the previous settings will be automatically selected.

Settings can be memorized for 5 modes: aspect (page.23), cinema and animation (page.25), subtitles (page.30), multi-audio (page.31) and OSD Position (page.37).



CONDITION indicator

CONDITION

Tips

- Once settings are memorized, they will be kept no matter how many times the disc is played back.
- Condition settings can be memorized on a maximum of up to 30 discs. If this maximum is exceeded the oldest settings will be overwritten with the new settings. Previously recorded data will also become the most recent recorded data if called up.
- When you want to change a setting, reset either of the aspect, cinema/animation, subtitle or multi-audio modes, start playback, and press the **CONDITION button.**
- The subtitle's or audio's language type is memorized with this function, not the number.
  On DVD discs that have the same language recorded more than once, the first number will be played back.

Note

When the power is turned off by a power outage or by unplugging the power cord, the memorized settings will be erased. When unplugging the power cord, be sure to first press the **POWER switch** on the front panel or **POWER button** on the remote control before doing so.

■ Memorization

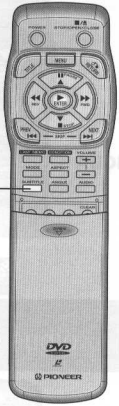
During playback, press the CONDITION button

- The CONDITION indicator on the front panel will light.
- When a disc that has been memorized is loaded, the CONDITION indicator will light. If the disc is played back at this time, the previous settings will be automatically selected.

Selecting the subtitle language

The subtitle language can be selected on DVD discs that have been recorded with more than one subtitle language.

- Selection can also be made using the menu (refer to page 32, 36).
- During playback, press the **SUBTITLE button** and then press the **CLEAR button** at the same time. Subtitles can also be cleared by selecting "OFF" in the subtitle menu.



During playback

1 Press the SUBTITLE button

- The subtitle number currently being played back will be displayed.

2 Press the SUBTITLE button to select the language you want

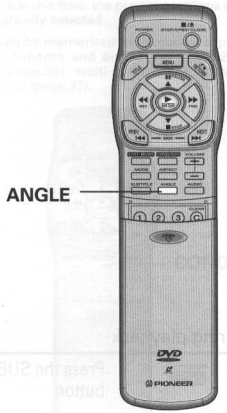
?

If the subtitle language does not change this means that there is only one language recorded on the disc or that there are no languages recorded.

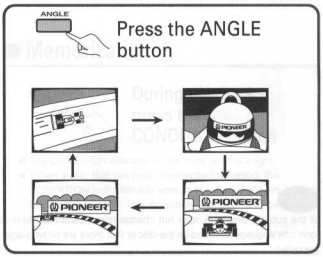
Selecting the scene angle

The scene angle can be selected on DVD discs that have been recorded with scenes filmed from more than one direction.
Here we will introduce the general selection method.

- Selection can also be made using the menu (refer to page 32, 36).



During playback



Tips

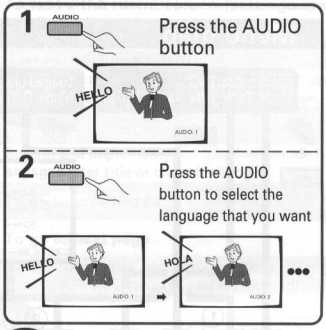
- The multi-angle function can not be selected on discs that have not been recorded with more than one scene angle.
- The front panel angle indicator will light during playback of multi-angle portions.

Selecting the audio language

Selection can also be made using the menu (refer to page 32, 36).

The DVD contains recordings of Dolby Digital or PCM audio in multiple languages. You can select the language you like from them.

During playback

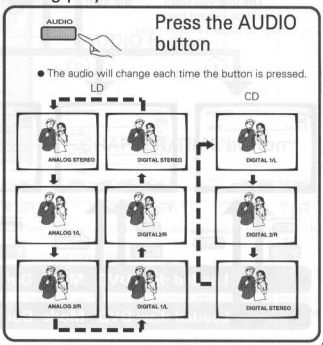


?

If the audio language does not change this means that there is only one audio language recorded on the disc.

Switching the audio

During playback



?

When audio can not be switched to digital on an LD disc, this means that digital audio is not recorded on the disc.

Tips

To select the song and accompaniment audio on karaoke discs etc., please make selection by matching with the audio numbers written on the disc's jacket etc.

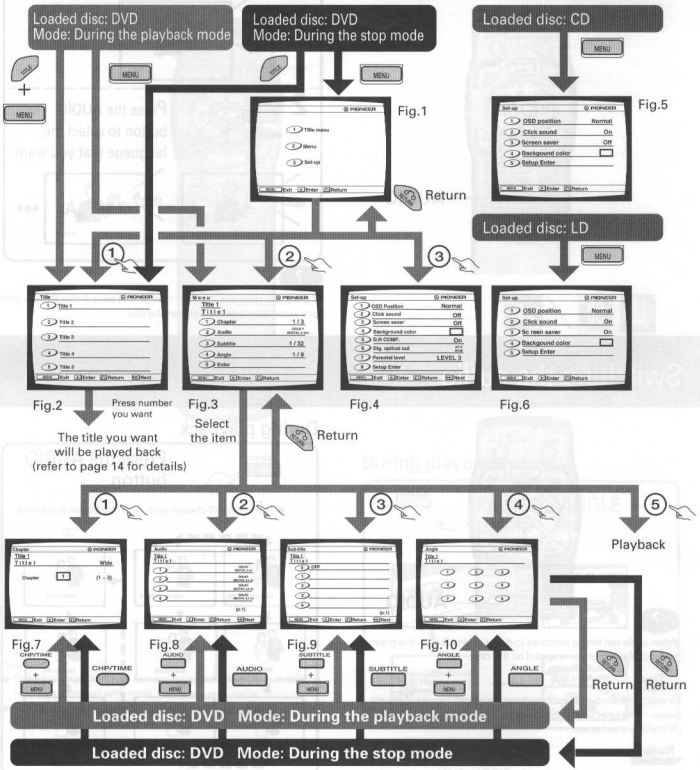
Note

Switching is not possible when the DIGITAL OUT (coaxial, optical) jacks are used for connection.

Outline of GUI (Graphical User Interface) operation

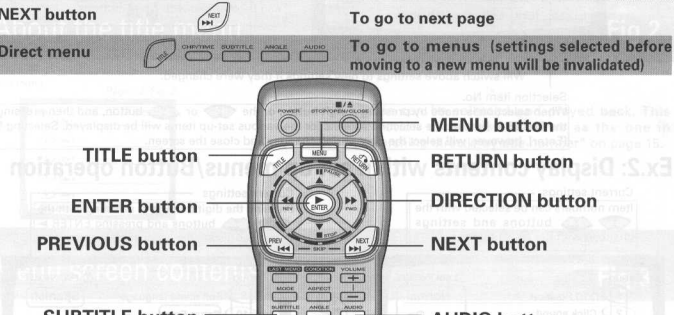
On this player, various settings can be selected while watching menu screens and using the remote controller. Here we will explain how to access menus screens. Because menu screen access differs according to the type of disc being used, or the playback mode (playback mode, stop mode etc.), refer to the following menu map when accessing.

Menu map



Button operation within each menu

Button name	Button shape	Operation
MENU button	MENU	To leave the menu screen (settings are invalidated)
RETURN button	RETURN	To return one menu screen back (Set up operation is invalidated)
Digit buttons	①~⓪·+10	Selection and conclusion (In the set up menu, some items only operate for selection.)
Direction buttons		Selection
ENTER button	ENTER	Setting and implementation (playback mode is engaged after title or chapter change)
REVERSE button	PREV	To go to previous page
NEXT button	NEXT	To go to next page
Direct menu	TITLE CHAPTER/TIME SUBTITLE ANGLE AUDIO	To go to menus (settings selected before moving to a new menu will be invalidated)

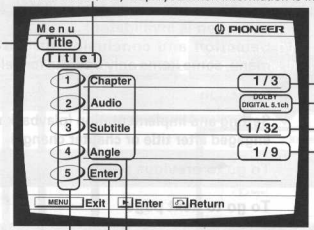


Notes

- Although the direct menu access buttons can be used to switch menus, the settings that were selected before moving will be invalidated.
- Any menu screen can be escaped from using the MENU button. The screen will return to the condition it was in before the menu was displayed. In this case all settings will be invalidated.
- The RETURN button can be used to return to the previous position or mode. In this case, the settings of the menu selected before returning will be invalidated.
- The title, chapter, subtitle, audio and angle menus will differ according to the disc being played back.
- During operation of disc menus (GUI indicator will be lit on screen), pressing any of the direction (◄ ► ▲ ▼) buttons for over 2 seconds allows them to be used to operate functions available when a menu is not in operation (fast reverse, fast forward, pause, stop). However, within these, because the **STOP ■ button** on the remote control is used at the same as the direction button (▼), to prevent mistaken operation, "STOP?" appears when the **STOP ■ button** is pressed. Although "STOP?" will disappear after a few seconds, pressing the **STOP ■ button** once again while it is displayed will engage the stop mode.

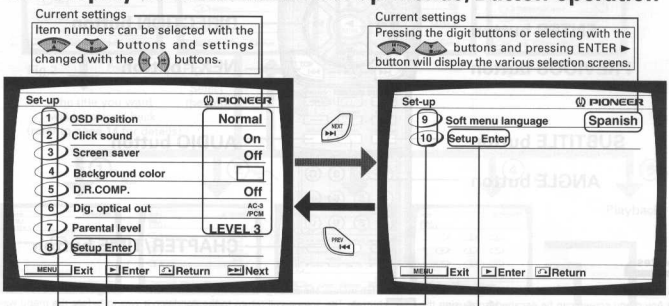
Examples of screen indicators and operation

Ex.1: Display content within menus/Button operation



When selection is made by pressing a **digit button** or the or button, and then pressing the **ENTER ► button**, the selection screens for the various set-up items will be displayed. Selecting 5 [Enter], however, will select the new setting changes and close the screen.

Ex.2: Display contents within set up menus/Button operation



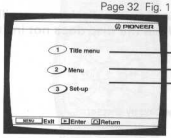
Selection can also be made with the digit buttons. When [Background color], [Parental level], or [Soft menu language] is selected, the selection screen for that mode will be displayed. Changing the settings and pressing the **ENTER ► button** will input the new settings and close the screen.

About the main menu

Fig.1

The main menu is the menu used for selecting the title menu screen, menu screen and set up screen.

Page 32 Fig. 1



In the Title menu screen:

Titles can be selected and played back. (Title search)

In the Menu screen:

Chapters (songs), subtitles, audio and angles within a title can be selected.

In the Set up screen:

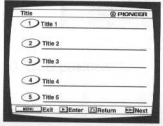
The various functions of this player can be set up using the screen displays.

About the title menu

Fig.2

Title menu

Page 32 Fig. 2



Titles can be selected and played back. This selection screen is the same as the one in "Searching directly by title number" on page 15.

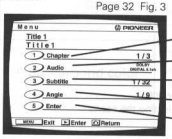
Menu screen contents

Fig.3

This screen is for selecting chapters, subtitle contents, audio and angles within a title.

Menu screen

Page 32 Fig. 3



In the Chapter screen:

One chapter (song) within a title can be selected and played back.

In the Audio screen:

Audio contents can be selected on discs that include more than one audio language or audio type.

In the Subtitle screen:

Subtitle contents can be selected on discs that include subtitle information.

In the Angle screen:

The scene angle that you want can be selected on discs that include scenes that have been filmed from various angles.

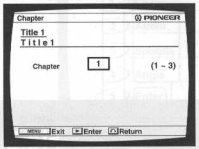
About the 4 menus

These menus are the same as the menus that are displayed when operation buttons (CHP/TIME button, SUBTITLE button, AUDIO button, ANGLE button) are pressed during the stop mode. Please refer to the sections explaining these menus.

When contents that correspond to the following 4 menus are recorded on the disc, the disc's menu will be displayed. Functions compatible with the various menus can be enjoyed. When the disc does not include menus, the player's menu (shown below) will be displayed.

Chapter menu

Page 32 Fig. 7

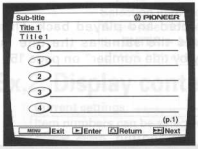


Chapter menu:

The chapter can be selected and played back.
This selection screen is the same as the one in "Searching by chapter number" on page 16.

Audio menu

Page 32 Fig. 8

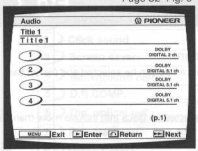


Audio menu:

This menu is for selection of audio language.
This selection screen is the same as the one in "Selecting the audio language" on page 31.

Subtitle menu

Page 32 Fig. 9

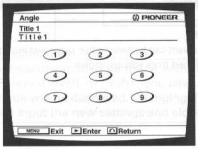


Subtitle menu:

This menu is for selection of subtitles.
This selection screen is the same as the one in "Selecting the subtitle language" on page 29.

Angle menu

Page 32 Fig. 10



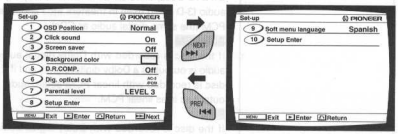
Angle menu:

This menu is for selecting the scene angle that you want.
This selection screen is the same as the one in "Selecting the scene angle" on page 30.

Changing settings

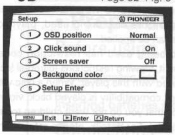
Set up menu when a DVD disc is being used

DVD Page 32 Fig. 4

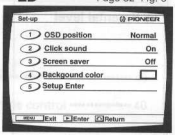


Set up menu when a CD or LD is being used

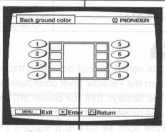
CD Page 32 Fig. 5

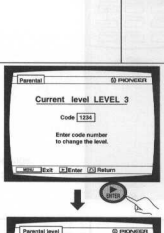
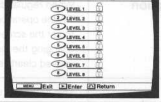


LD Page 32 Fig. 6



Initial settings (when shipped from factory)

① OSD position	When regular discs are viewed on a wide screen TV, the operation indicators sometimes run off the top of the screen, making them difficult to see. By changing the indicator position, indicators can be viewed clearly even on a wide screen TV.	**Normal** When a regular TV (4:3) is used.	**Wide** When a wide screen TV is used. (Menu screens are not compatible)
② Click sound	This setting is used to turn the operation sound (click) on or off when selecting settings on the screen.	On*1 Sound is output.	Off Sound is not output.
③ Screen saver	When the same picture is left in the still mode for a long period of time a phenomena known as "screen burn" may occur. A screen saver function is included on this player to prevent screen burn when a menu screen etc., is displayed for a long period of time (over 5 minutes).	Off Screen saver does not function.	On Screen saver functions.
④ Background color	The background color that you want to display for menu screens or during the stop mode can be selected from 8 different colors. (Number 4 is the initial color setting.)	 Color changes to the color selected.	

⑤ D.R.COMP.	D.R.COMP stands for "Dynamic Range Compression". On DVD discs the audio's dynamic range has been widened. This setting should be set to ON when the spoken portion of audio on your stereo system or TV is not clear.	Off Wide dynamic range can be enjoyed.	On When audio is distorted. Dynamic range is compressed.
⑥ Digital optical output	The audio output from the optical digital jack on this player can be changed. On DVD discs, there are 2 standards: Dolby digital audio (3-D audio used in theaters etc.) and linear PCM (the same digital audio as CDs). AC-3/PCM If the disc is recorded with Dolby digital audio, audio is output as a Dolby digital signal, and if the disc is recorded with linear PCM audio, audio is output as is as linear PCM. PCM If the disc is recorded with Dolby digital audio, audio is converted to linear PCM and output, and if the disc is recorded with linear PCM audio, audio is output as is.	AC-3/PCM When connected to the Dolby digital (AC-3) optical input jack of an amplifier that has a built-in Dolby digital (AC-3) converter.	PCM When connected to the optical input jack of a regular amplifier or a Dolby Pro Logic amplifier etc..
⑦ Parental level	Parental lock refers to viewing restrictions. Depending on the disc being used, playback restrictions can be applied. If the disc being used has restriction codes recorded on it, viewing restrictions (parental lock) can be applied with this player. When a disc with parental lock compatibility is played back, violent scenes etc., that you do not want children to see can be skipped. For details, please refer to the disc's operator's manual. Once a code number is assigned, if the code number is not set the next time the player is used, changing the level will not be possible. Please make a note of the code number so that you do not forget it. If forgotten, return this player to its initial settings *2 and re-assign the code.		The code number is set with the digit buttons. Sets restriction level.
⑧ Soft menu language	If the disc's menu language is multi-language compatible, selection from among those is possible.		
Set up Enter	To close a set up screen where settings have been changed.		

Notes

*1 The click sound will not be output through the DIGITAL OUT (coaxial, optical) jack during AC-3 digital output connection.

*2 To return the Parental level code number, Condition memory, Last memory, Set-up menu data etc., to their initial settings (when shipped from the factory), turn the power off, and press the **POWER switch** while pressing the **STOP ■ button**.

- When the power is turned off by a power outage or by unplugging the power cord, the memorized settings will be erased. When unplugging the power cord, be sure to first press the **POWER switch** on the front panel or **POWER button** on the remote control before doing so.

• Preparation

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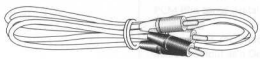
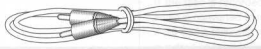
Before using

Check accessories

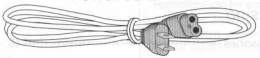
Audio cord



Video cord

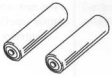


Power cord



Remote control unit

Batteries.....2



- Warranty card
- Operating Instructions (this manual)

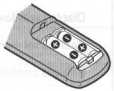
Inserting batteries into the remote control

1 While pushing on the rear cover, slide it in the direction of the arrow.

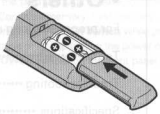
- The cover will come off.

2 Insert batteries

- Make sure to match the plus (+) and minus (-) polarity guides on the batteries with the marks inside the battery compartment.



3 Close the cover.

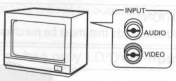


Notes

- Do not mix old and new batteries.
- Even batteries of the same type will differ in voltage. Do not mix old batteries with new batteries.
- When not using the remote control for a long period of time (over 1 month), remove the batteries to avoid possible damage from battery corrosion. If battery leakage occurs, wipe the battery liquid from the battery component, then insert new batteries.

Connections

Refer to the following chart for the connection that suits your type of TV (video)

	Your components	Reference diagram	Comments
TV with video input		**Fig. 1**	If your TV has video inputs and they are not being used, this method of connection is the easiest.
AV amplifier with Dolby digital (AC-3)		**Fig. 2**	When your AV amplifier has Dolby digital (AC-3) input jack

- Connection can also be made to a stereo amplifier, an AV amplifier or an amplifier etc. Please refer to Fig. 3 and 4 when connecting to any of these components.
- Please do not use a power cord other than the one provided. Using a different one may cause damage.

This player is compatible with the Macrovision copy guard system.

As a result, when the player is connected to a TV through a VCR or its signal is recorded or played on a VCR, normal image may not be reproduced.

Fig.1 When using an AV TV that has Audio and Video input terminals

- Connect plugs to the terminals that match the plug's color (white, red, yellow).
- If the TV has many video input systems, select video input (Video 1, Video 2 etc.).
- Connect the TV with S-VIDEO terminal to the S VIDEO OUT (1 or 2) terminal of this player. When using a Pioneer SD-P5795 W or PRO-1009 W TV (both sold only in the U.S.), we recommend that you make connection to the S-VIDEO OUT 1 terminal. Wide screen will be selected automatically.
- Please also refer to the manual for the TV (monitor TV or VCR) that you are making connection to.

CAUTION
* indicate cords that must be purchased separately

When the TV includes an S-VIDEO jack

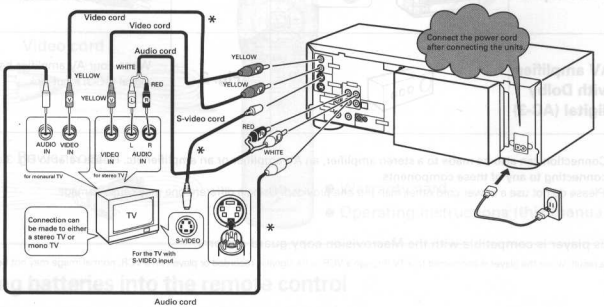
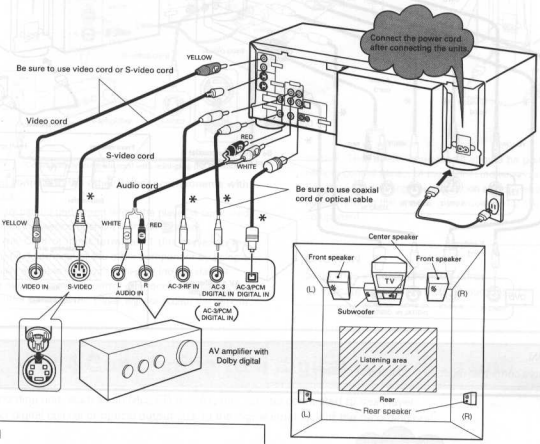


Fig.2 Connection to a Dolby Digital (AC-3) compatible amplifier (Ex. 1)

- Connect the AC-3/PCM Digital output jack of this player to the Dolby digital input (AC-3) jack of a Dolby Digital compatible amplifier. Connection can be made with either a coaxial cable or optical cable.
- Connect the AC-3 RF output jack of this player to the AC-3 RF input jack of a Dolby digital compatible amplifier. Do not, under any circumstances, make connection to any other jack.
- When using an optical cable for connection, be sure to set the player to the AC-3/PCM mode using the "Setting Digital optical output" procedure explained on page 38.
- As the analog audio of LDs will not be output as digital output, please use the audio inputs.

When the amplifier has only LD/DVD inputs



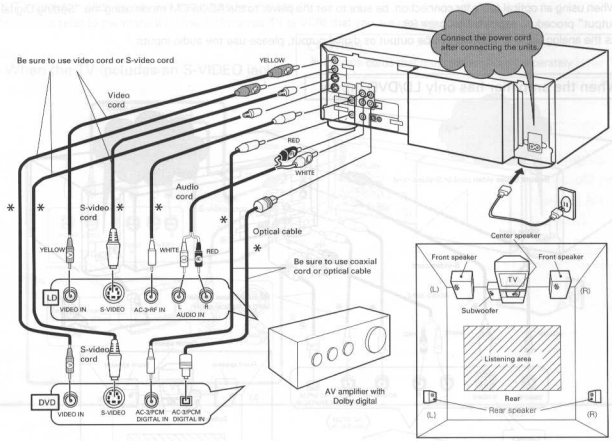
CAUTION

* indicates cords that must be purchased separately

Fig.2 Connection to a Dolby Digital (AC-3) compatible amplifier (Ex. 2)

When the amplifier has separated LD and DVD inputs

Set the input selector of the amplifier to LD when the LD is played and to DVD when a DVD is played.



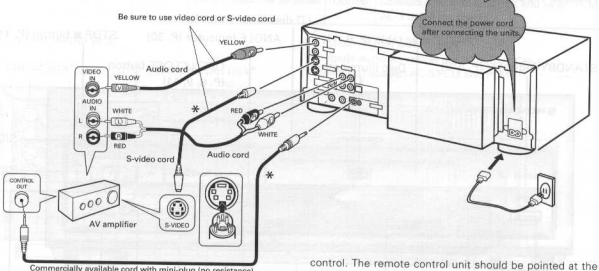
CAUTION

* indicates cords that must be purchased separately

Fig.3 To playback with better sound quality

The sound quality of the disc will be enhanced by connecting this player to an AV amplifier or stereo amplifier.

- Connect this player's audio output terminal to the amplifier's CD, LD, AUX etc., audio input terminal. (Do not connect to the PHONO terminal).
- Connect this player's video output terminal to the amplifier's video input terminal.



- **When you connect to the other Pioneer components with the [Fi] mark**

System control can be performed when the player is combined with an optional Pioneer component with the [Fi] mark.

- Connect the Control input terminal of this player to the CONTROL OUT terminal of the other component by using a commercially available cord with mini-plug (no resistance).

* Once the system remote control connection is made, the remote control sensor of this player will not accept the remote control. The remote control unit should be pointed at the remote control sensor of the connected component.

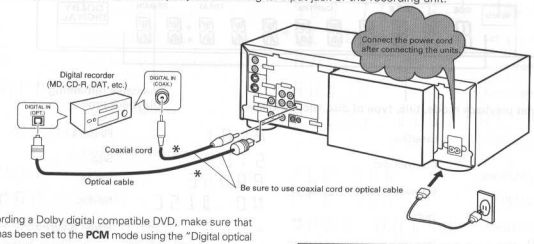
* For details concerning the connection and operation methods, please refer to the operating instructions for the connected component.

CAUTION
Solid lines indicate provided cords
* indicate cords that must be purchased separately

Fig.4 Connecting to a digital recording unit

Digital recording unit, such as an MD, CD-R, DAT, etc., can be connected to this player.

- Connect digital coaxial or optical output jack to the digital input jack of the recording unit.



Note

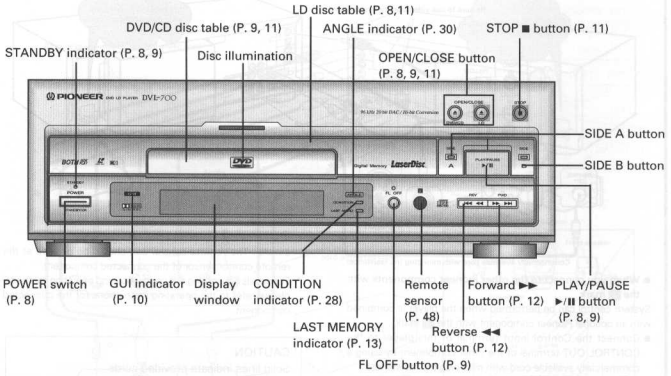
When recording a Dolby digital compatible DVD, make sure that the player has been set to the **PCM** mode using the "Digital optical output" procedure explained on page 34. If the DVD is recorded in Dolby digital (AC-3), the AC-3/PCM mode setting will result in noise being recorded.

CAUTION
* indicates cords that must be purchased separately

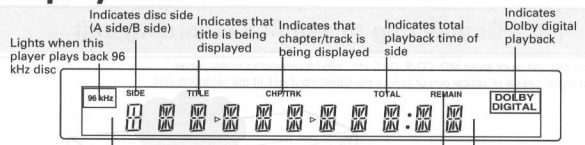
Names and functions

■ Front panel

● A detailed explanation is provided on the indicated page(s).



Display window



Indicates that playback mode, title, type of disc, etc. as follows.

L D	LaserDisc	PLAY	Playback
C D	Compact disc	STOP	Stop
C D V	CD video	PAUSE	Pause
D V D	DVD	NO DISC	No disc
OPEN	Disc table is opening or is open	-- OFF --	Power is turned off
CLOSE	Disc table is closing	SIDE A(B)	SIDE A(B): Disc side

■ Rear panel

* There is both 1 and 2, allowing 2 systems to be connected at the same time. For example, 1 can be connected to the TV and 2 can be connected to an AV amplifier.

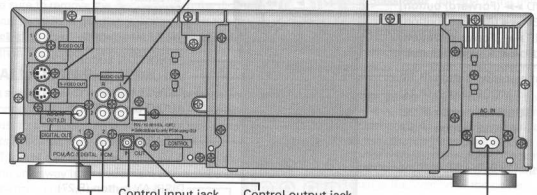
Your home amplifier	Regular AV amplifier	Coaxial	Connect to PCM jack
		Optical	Connect to optical output jack and select PCM using the menu
	AC-3 compatible amplifier	Coaxial	Connect to PCM/AC-3 jack
		Optical	Connect optical output jack and select PCM/ AC-3 using the menu

S-video output jack*

Video output jack*

Audio output jack*

Optical digital output jack
Outputs audio as optical digital output. Can be switched between AC-3/PCM and PCM



AC-3RF output (for LD)
By connecting to the AC-3RF jack of a receiver or processor, 5.1 ch surround audio can be enjoyed.

Control input jack

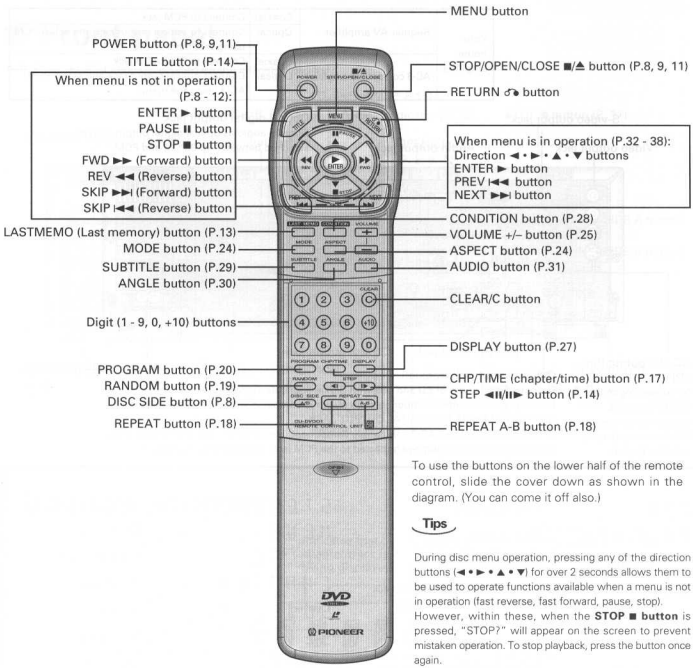
Control output jack

Digital output jack (coaxial)
Outputs digital audio of CD and LDs with digital sound as digital output.
Depending on the other components the player is combined with, NOISE MAY BE GENERATED FROM THE DIGITAL OUTPUT JACK.
When connecting to an AC-3 compatible component, please connect to the PCM/AC-3 jack.
Other components should be connected to the PCM jack. (Refer to the list above.)

Power cord connection terminal

RDM	Random playback	STEREO	Stereo
PROGRAM	Program mode	MENU	Menu mode
R-TRK	Repeat mode	TITLE	Title menu
R-A	Start point of 2 point repeat playback	CHAPTER	Chapter menu
R-AB	2 point repeat playback	SUB-TITLE	Sub-title menu
R-TTL	Repeat playback of the title	SETUP	Set-up menu
R-SID	Both sides of LD repeat playback	ANGLE	Angle menu
COND MEMORY	Condition memory	AUDIO	Audio menu
LAST MEMORY	Last memory playback	DOLBY DIGITAL 5.1CH	Dolby digital surround 5.1 ch
CINEMA1	Cinema 1	PCM 96K	96K PCM audio
CINEMA2	Cinema 2	PCM 48K	48K PCM audio
ANIMATION	Animation mode	MPEG AUDIO	MPEG1 or MPEG2 audio
STANDARD	Standard		

■ Remote control



To use the buttons on the lower half of the remote control, slide the cover down as shown in the diagram. (You can come it off also.)

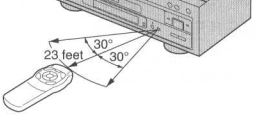
Tips

During disc menu operation, pressing any of the direction buttons (◄ • ► • ▲ • ▼) for over 2 seconds allows them to be used to operate functions available when a menu is not in operation (fast reverse, fast forward, pause, stop). However, within these, when the **STOP ■ button** is pressed, "STOP?" will appear on the screen to prevent mistaken operation. To stop playback, press the button once again.

Remote control operation

When operating the remote control, point it at the remote sensor located on the player's front panel. The remote control can be used up to 23 feet (7m) from the player and within a 30° angle each side of the sensor.

- Exposing the remote sensor to direct sunlight or strong light may cause faulty operation.
- If the CONTROL IN jack on the player's rear panel is connected to another component, point the remote control at that component for operation. Operation is not possible when pointed at this player.
- When using the remote control, first press the POWER switch to turn on the player's power.



For Proper and Long Use

■ DO NOT MOVE THE UNIT DURING PLAYBACK

During playback, the disc rotates at high speed. Do NOT lift or move the unit during playback. Doing so may damage the disc.

■ WHEN MOVING THE UNIT

When changing places of installation or packing the unit for moving, be sure to remove the disc and return the disc table to its original position in the player. Then, switch the power OFF. **Check that the "–OFF–" indication on the display goes off**, then disconnect the power cord.

■ INSTALLATION PLACE

- Select a stable place to the side of a TV set or stereo system to be connected to the unit.
- When using the unit with a stereo system, install the speakers a little bit away from the TV.
- Do NOT install the unit on top of a TV or color monitor. Install the unit away from equipment that may be affected by magnetism, such as a cassette deck.

■ AVOID INSTALLING IN A PLACE THAT IS:

- Exposed to direct sunlight
- Exposed to humidity or where ventilation is poor
- Extremely hot or cold
- Exposed to vibration
- Exposed to dust
- Exposed to oily smoke, steam or heat (for example, a kitchen)

■ DO NOT PLACE AN OBJECT ON TOP

Do NOT place an object on the unit.

■ DO NOT BLOCK VENTS

Do NOT use the player on top of a long-haired carpet, bed or sofa, and do not cover it with a cloth etc.. This will prevent heat radiation and could result in damage.

■ AVOID HEAT

Do NOT place the unit on equipment generating heat, such as an amplifier.

When installing the unit in a rack, place it on the lowest shelf possible (however, not where it is exposed to dust) and separated from the amplifier to avoid the heat generated by the amplifier or other audio equipment.

■ CAUTION: WHEN PLACING THE UNIT IN A STEREO RACK WITH GLASS DOORS

Be sure there is ample space between the unit and the glass doors when opening the disc table using the remote control.

If the disc table opens against strong resistance, **such as a closed glass door**, damage to the unit may result.

■ CONDENSATION

Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired.

To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.

■ SWITCH THE POWER OFF WHENEVER NOT USING THE UNIT

Depending on the strength of the TV broadcast signal, having the TV set on while the power of the unit is ON may produce stripes on the TV screen. However, this is not a malfunction of this unit or the TV set. In such a case, switch the power of the unit OFF.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CARE OF DISCS

How to hold discs
When loading or removing discs, try not to touch their playing surfaces.

Cleaning
Fingerprints or other dirt on the disc may affect sound and picture quality.

To clean your discs, use a soft clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt or fingerprints.

Do not wipe in a circular direction (Concentric scratches in the disc groove tend to cause noise.)

Gently wipe from the inside toward the outer edge.

Discs must not be cleaned with record cleaning sprays, or static prevention sprays, etc. Also do not use volatile liquids such as benzine, or thinner, etc.

NEVER PLAY CRACKED OR WARPED DISCS.

- The disc revolves in the player at a high speed when it is played. Never play a cracked, scratched or warped disc. This may damage the player or cause it to malfunction.

After using discs, store them upright
After playing a disc, always remove it from the player and return it to its jacket. Then store it standing upright away from heat and humidity.

- Store discs carefully. If you store discs at an angle, or stacked on top of each other, discs may become warped even when in their jackets.
- Do not leave discs in locations such as the seat of car, which may become excessively hot.

CAUTION WHEN USING THE DISC
All rights reserved.
Unauthorized public performance, broadcasting or copying is a violation of applicable laws.

CLEANING CARE

Use a soft, dry cloth for cleaning. For stubborn dirt, soak the cloth in a weak detergent solution; wring well first and wipe. Use a dry cloth to wipe it dry. Do not use any volatile agents such as benzine or paint thinner, as they may damage the surface of the player.

LD/CD lens cleaner
The player's pickup lens should not become dirty in normal use, but is for some reason it should malfunction due to soiling, ask your nearest PIONEER authorized service center. Lens cleaners for LD/CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

Notes on using the optional optical cable

- Do not route cords around sharp angles. When storing, wind the cords so that they have a diameter of at least 15 cm.
- When connecting, push all the way into the terminal.
- Please use cords with a length of over 3m.
- If moisture or dust has collected on the plug, wipe it with a soft cloth before connecting.

Terms

Dolby digital (AC-3)
The maximum 5.1 channels of audio used in the surround system (Surround Digital) for movie theaters is digital data compressed by AC-3.

DOLBY DIGITAL or DOLBY SURROUND PRO LOGIC

For DVD discs, the digital output AC-3/PCM jack (coaxial or optical, either is OK) must be connected to the amplifier or processor's digital input AC-3/PCM jack.
For LD discs, the AC-3 RF OUT (LD) jack must be connected to the amplifier's AC-3 RF IN jack.

PCM
PCM stands for Pulse Code Modulation and is digital audio. The digital audio of CD, LD or DVD discs is PCM.

Title number
Title numbers refer to titles of movies etc. As DVD discs have a large capacity, many movies can be recorded on one disc. For example, when 3 different movies are recorded on a disc, they are divided into TITLE 1, TITLE 2 and TITLE 3. Playback can be operated by selecting the title number.

Chapter number
Chapter numbers are the numbers assigned to sections on a title of the disc, similar to chapters in a book. If the disc includes these numbers, you can locate the section you want very quickly using chapter search and other functions.

- Some discs may not include chapter numbers.

Time number
The time number is the playback lapse time of a title in the disc from its beginning. The scene you want to locate can be searched for with the time number using the time number function etc..

LD (Laserdisc)
Depending on the signal recording method used, there are two types of Laserdiscs; standard discs (CAV) and extended playing discs (CLV).

CAV
CAV disc jackets or labels are marked with "Standard disc/ CAV" or "Standard Play".

CLV
CLV disc jackets or labels are marked with "Extended playing disc/CLV" or "Extended Play".

Laserdiscs with digital audio
These type of discs are recorded with digital audio signals in addition to the analog audio signals. This allows you to enjoy high quality digital sound along with the laser disc's high quality picture.

digital AUDIO or digital SOUND

Multi audio discs with digital sound
These type of discs are recorded with different types of digital audio and analog audio content.

digital AUDIO and MULTI AUDIO or digital AUDIO MULTI AUDIO

Digital audio or analog audio can be enjoyed by switching between the two types.

Click sound
When the push switches of a remote control or a computer mouse etc., are pressed, this function produces a click sound to let you know that the switch has been pressed. Normally operation is easier with the click sound, but it can also be turned off on this player if desired.

Screen saver
When a still picture is displayed for a long period a phenomena know as "screen burn" may occur.
To avoid this, computers are equipped with screen savers. Although reducing the brightness of the screen will produce the same effect the screen saver on a computer automatically produces darkens the screen or produces a moving image that prevents strong light rays (bright colors) from being able to concentrate in one spot of the screen.

Multi-angle
When you watch regular TV programs you are watching the image filmed through the TV camera. Because of this the picture is displayed on your TV from the view point of the TV camera's position. In a TV studio the image is filmed by many cameras at the same time, and one of those images is selected by the program director and transmitted to your household TV. If all the filmed images were transmitted to your TV you would be able to select the camera image you want. Some DVD discs are recorded with the angles of all camera's used for filming and these can be selected using this player. These types of discs are called multi-angle discs.

Aspect
Aspect ratio refers to the length to height ratio of TV screens. The ratio of a normal TV is 4:3, while the ratio of a Hi-vision TV or wide TV is 16:9. This allows you to enjoy a picture with a wider perspective.

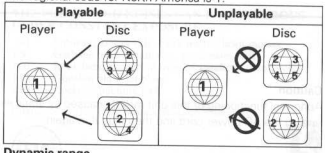
Parental level
This function was suggested by parents. Parental level restrictions are restrictions incorporated into scenes that parents do not wish their children to view.

Condition memory
"Condition" refers to the various mode settings etc. On this player, various conditions, such as those set during playback etc. can be memorized. This function allows you to play back the same disc at any time without having to reset the condition settings.

Subtitle
Subtitles are language titles superimposed on movies etc. Up to 32 different subtitle languages can be recorded on a DVD disc. The subtitle function can be used to select the language of your choice.

Optical digital output
Normally, audio is converted to an electric signal and transmitted through an electric wire from the player to the amplifier etc.. Changing this signal to a digital signal and transmitting it through an optical fibre cable is called optical digital output. (Optical digital input is the side receiving the signal such as the amplifier etc..)

Regional restriction codes (region number)
Regional restriction codes are built-in to DVD players and DVD discs for each sales region. If the regional code of the DVD player does not match one of the regional codes of the DVD disc, playback will not be possible. At this time an indicator will appear on the screen.
The regional code for North America is 1.



Dynamic range
Dynamic range refers to the difference between the maximum conversion level for transmission/conversion of distortion free signals and noise and/or the minimum level limited by the equipment's characteristics. Decibel units (dB) are used.

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

	Symptom	Possible causes	Reference page
Operation	1. The disc comes back out even when the disc table is closed.	• The disc is dirty or warped. • The disc is not placed properly on the disc table.	p.50 p.8
	2. Playback is not possible.	• Condensation has formed inside the player. • This player cannot play PAL and SECAM format DVD discs.	
	3. Picture disturbance during playback.	• This player is compatible with macrovision system copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV.(This is not a malfunction.)	
	4. When the player is connected to a TV through a VCR, there will be disturbance in the playback picture.	• This player is compatible with macrovision system copy guard. Some discs include a copy prevention signal and the copy guard system will prevent proper playback.	
Remote control	5. Remote control operation is not possible.	• The control input terminals are in use. • The remote control is too far from the player, or the angle with the remote sensor is too sharp. • The batteries are exhausted.	p.45 p.48
	6. Improper operation of TV set, etc., occurs.	• Some TVs that have wireless remote control function may not operated properly with this remote control.	
Audio	7. Audio is not output or is distorted.	• The connection plugs are not inserted fully into the terminals or are not connected. • The connection plug or terminal is dirty. • The pause mode is engaged. • Audio cable connection is wrong. • Stereo amplifier operation wrong. (Check input (CD, LD etc.) selector) • Connection is made to the stereo amplifiers PHONO input terminal.	p.41~p.45

Caution

Abnormal functioning of this unit may be caused by static electricity, or other external interference. To restore normal operation, unplug the AC power cord and then plug it in again.

Specifications

General

System ..... DVD system, LaserVision Disc system and Compact Disc digital audio system
Power requirements: ..... AC 120 V, 60 Hz
Power consumption ..... 62 W
Weight ..... 9.0 kg (19 lb 14 oz)
Dimensions ..... 420 (W) x 463 (D) x 140 (H) mm (16 $^{9}/_{16}$x18 $^{7}/_{8}$x5 $^{1}/_{2}$ in.) (Not including protruding cables, etc.)
Operating temperature ..... +5°C to +35°C (+36°F to +96°F)
Operating humidity ..... 5% to 85% (no condensation)

Video Output (2 pairs)

Output level ..... 1 Vp-p (75Ω when loaded, synchronous negative)
Jacks ..... RCA jacks

S-Video Output level (2 pairs)

Y (luminance) - Output level ..... 1 Vp-p (75 Ω)
C (color) - Output level ..... 286 mVp-p (75 Ω)
Jacks ..... S-VIDEO jacks

Audio Output (2 pairs)

Output level
During digital audio output ..... 200 mVrms (1 kHz, –20 dB)
Number of channels 2
Jacks ..... RCA jacks

Digital audio characteristics

Frequency response	4 Hz to 22 kHz (DVD fs: 48 kHz) 4 Hz to 20 kHz (LD, CD)
S/N ratio	115 dB (EIAJ)
Dynamic range	97 dB (EIAJ)
Total harmonic distortion	0.003 %
Wow and flutter	Limit of measurement (±0.001% W. PEAK) or lower (EIAJ)

Other Terminals

Optical digital output (PCM/AC-3) ..... Optical digital jack
Coaxial digital output (PCM/AC-3) ..... RCA jack
Coaxial digital output (PCM) ..... RCA jack
AC-3RF output (for LD) ..... Pin jack
CONTROL IN ..... Minijack (3.5ø)
CONTROL OUT ..... Minijack (3.5ø)

Accessories

Remote control unit 1
AAA/R03 dry cell batteries 2
Audio cord 1
Video cord 1
Power cord 1
Operating Instructions 1
Warranty card 1

NOTE:

The specifications and design of this product are subject to change without notice, due to improvement.

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.
THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE	
90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

1-800-421-1404

Please do not ship your product to Pioneer without first calling the Customer Service Department at the above listed number for assistance.

PIONEER ELECTRONICS SERVICE, INC.
CUSTOMER SUPPORT DIVISION
P.O. BOX 1760, LONG BEACH,
CA 90801-1760, U.S.A.

For warranty information please see the Limited Warranty sheet included with your product.

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